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NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

03/31/2008

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

DESAI, NAISHADH N

ART UNIT PAPER NUMBER

2834

DATE MAILED: 03/31/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/555.090	11/02/2005	Yutaka Kitamura	O90831	9358

TITLE OF INVENTION: VEHICULAR ROTATING ELECTRICAL MACHINE APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/30/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed other	ng the Patent, advance of herwise in Block 1, by (orders and notification of a) specifying a new corre	maintenance fees v spondence address	vill be ; and/or	mailed to the current or (b) indicating a separ	correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
23373	7590 03/31	/2008					nission
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
WASHINGTON	N, DC 20037						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	<u> </u>	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/555,090	11/02/2005	•	Yutaka Kitamura			Q90831	9358
TITLE OF INVENTION	: VEHICULAR ROTAT	TING ELECTRICAL MA	CHINE APPARATUS				
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0 •		\$1740	06/30/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
DESAI, NA	ISHADH N	2834	310-058000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to or agents OR, alternation (2) the name of a sing registered attorney or	e of a single firm (having as a member a torney or agent) and the names of up to patent attorneys or agents. If no name is			
PLEASE NOTE: Un	less an assignee is ident h in 37 CFR 3.11. Comp	ified below, no assignee	THE PATENT (print or ty data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	patent. If an assignassignment.			cument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 C	orporati	ion or other private grou	p entity 🗖 Government
			b. Payment of Fee(s): (Ple	ase first reapply a	ny prev	viously paid issue fee sl	nown above)
Issue Fee	T11		☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
☐ Publication Fee (No small entity discount permitted)☐ Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
			overpayment, to Depo	osit Account Numb	er	(enclose an	extra copy of this form).
5. Change in Entity Sta	i tus (from status indicate is SMALL ENTITY stati		☐ b. Applicant is no lor	oer claiming SMA	LL EN	FITY status See 37 CF	R 1 27(o)(2)
NOTE: The Issue Fee an	d Publication Fee (if rea	uired) will not be accepte	ed from anyone other than	-			
interest as shown by the	records of the United Sta	ites Patent and Trademark	COffice.				
Authorized Signature				Date			
Typed or printed name				-			
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 dapplication form to the ions for reducing this bu. Firginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	on is required to obtain or 1.14. This collection is es y depending upon the indi- te Chief Information Offic COMPLETED FORMS T	retain a benefit by timated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	the pub minutes omment Traden S. SEN	lic which is to file (and s to complete, including its on the amount of time nark Office, U.S. Depar D TO: Commissioner fo	by the USPTO to process) gathering, preparing, and e you require to complete tment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/555,090	11/02/2005	Yutaka Kitamura	Q90831	9358
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SUGHRUE MIC	ON, PLLC	DESAI, NA	ISHADH N	
2100 PENNSYLVANIA AVENUE, N.W.			ART UNIT	PAPER NUMBER
SUITE 800 WASHINGTON,	DC 20037		2834 DATE MAILED: 03/31/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 52 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 52 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/555,090	KITAMURA ET AL.
Notice of Allowability	Examiner	Art Unit
	NAISHADH N. DESAI	2834
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this at or other appropriate communication IGHTS. This application is subject	oplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to <u>12/20/2007</u> .		
2. ☑ The allowed claim(s) is/are <u>1,3-9 and 15-17</u> .		
 3. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Application No	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN		y complying with the requirements
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Review(PTC	0-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5.	Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar Paper No./Mail D	y (PTO-413),
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. ☐ Examiner's Amend	Iment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material		nent of Reasons for Allowance
	9. 🔲 Other	

Application/Control Number: 10/555,090 Page 2

Art Unit: 2834

DETAILED ACTION

Response to Arguments

1. Examiner finds applicant's arguments persuasive in view of amendment made by applicant.

Reasons For Allowance

- 1. Claims 1,3-9 and 15-17 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

None of the prior art references of the record, either stand-alone or in combination, teaches a "thermal conduction blocking portion is provided such that part of the heat sink on which the inverter module is mounted and the part of the heat sink on which the field current control device or the control device is mounted are not thermally influenced by each other" as recited in the claims.

US 6198188 disclose a rectifier cooling fin arrangement of vehicle AC generator comprising: A stator having a multi-phase armature winding, a rotor disposed radially inside the stator, a rectifier unit having a positive cooling fin holding a plurality of diodes and a negative cooling fin holding a plurality of diodes.

US 5517401 disclose an inverter comprising: semi conductor power switching devices, a DC voltage supplied from a main battery to an AC voltage, which is supplied to an AC motor.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Application/Control Number: 10/555,090 Page 3

Art Unit: 2834

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naishadh N. Desai whose telephone number is (571) 270-3038. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Naishadh N Desai Patent Examiner

/Darren Schuberg/ Supervisory Patent Examiner, Art Unit 2834